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Spec Ms Coll Tesla Tesla, Nikola
The New Tesla Electric Heater
n.p., n.d.
a.ms., 3 p. (possibly in Tesla's hand) With typed copy and carbon. 21380%

THE NEW TESLA ELECTRIC HEATER. STRICTLY CONFIRENTIAL This device is greatly superior to the usual flat coil Type in affectincy and other respects. It courses of a thin perioded with the acting as replactor and a lase equipped with switch and cornecting terminals and carrying spaced resister wires concentric with the take and at a certain destance from the inner surface of the same , in this arrangement the diffuse radiation is virtually aliminated and the beater operates as if the resistor were not present the rays being projected from the reflection radically to the contral or focal region receiped by The preacipal advantages thus secured are the following i 1. It very high efficiency, as much as 96% being attainable 2. The efficiency is practically the same whether the pet so large or small since the density of the rays is inversely as the diamiter of the versel. I Due to tree pertured the currente consumption

is hardly more than half of that in the lest heaters of the type referred to 4. The resistor has a relatively much longer life and can be made to last almost indeficitely in some cases. Also less wire can be used if desired 5. The heat being largely confined to the range, the Kitchen remacus comparatively cool. 6. Another practical advartage is creater safety from a variety of accidents prequently occurring with ordinary ranges. I The new heater is copecially adapted for use on ship board Pullman cars acrial vehicles and automobiles. 8. Likewise, il is suitable for all kinds of service. on the table, being free from the elections of the present heaters 9. It saves considerable line in certain explications. 10. Dwarg to simplicity the cest of manufacture is Com

60 I mid field will with two wires . winding lotte at the same line. One set of field winding the Acrimi de brought one. field sundings should series with the armsture, Each wrenit to tape 1/20 empere or 60 volts

THE NEW TESTA ELECTRIC PRATER

STRICTLY CONFIDENTIAL

This device is greatly superior to the usual flat core type in efficiency and other respects. It consists of a thin polished metal tube acting as reflector and a base equipped with switch and connecting terminals and carrying spaced distance from the inner surface of the same. In this arrangement the diffuse radiation is virtually eliminated, and the heater operates as if the resistor were not present, the rays being region occupied by the boiling pot.

The principal advantages thus secured are the following:

- T. A very high efficiency, as much as 96% being attainable.
- 2. The efficiency is practically the same whether the pot the diameter of the vessel.
- more than hal of that in the best heaters of the type referred
- be made to a t almost indefinitely in some cases. Also less wire can be ed if desired.
- 5. The heat being largely confined to the range, the kitchen remains comparatively cool.
- 6. Another practical advantage is greater safety from a variety of accidents frequently occurring with ordinary ranges.
- 7. The new heater is especially adapted for use on shipboard, Pullman cars, aerial vehicles and automobiles.
- 8 Likewise, it is suitable for all kinds of service on the table, being free from the objections of the present
 - 9. It saves considerable time in certain applications.
 - 10. Owing to simplicity, the cost of manufactoring as low.

THE HEN TESLA PROTRIC HEATER.

STRICTLY CONTINUES OF ALL

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This device is greatly superior to the usual flat soil type in efficiency and other respects. It consists of a thin polished metal tube acting as reflector resistor wires consented with seitch and connecting terminals, and carrying spaced surface of the same. In this arrangement the diffuse radiation is tirtually clinated, and the heater operates as if the resistor were not present, the rays paid by the boiling pot.

The principal advantages thus secured are the following:

- 1. A very high efficienty, as much as 95% being attainable.
- or small, since the density of the mays is inversely as the dismeter of the vessel.
- 3. Due to these features the current consumption is hardly more than half of that in the best heaters of the type referred to.
- 4. The resistor has a relatively much longer life and can be made to last almost indefinitaly in some cases. Also less wire can be used if desired.
- 6. The heat being largely confined to the range, the kitches remains
- 6. inother practical advantage is greater safety from a variety of accidents frequently occurring with ordinary ranges.
- 7. The new heater is especially adapted for use on shipboard,
- 8. Libraise it is suitable for all kinds of service on the table, being free from the objections of the present type.
 - 9. It saves sensiderable time in cortain applications.
 - 10. Owing to simplicity, the cost of manufacturing is low.